

Research!Louisville 2017 Winners

Master's Basic Science Graduate Student Award

2nd place Fengyuan Li “*CRAMP Deletion Exacerbates Alcohol-Induced Liver and Pancreas Injury via Regulation of Gut Microbiota and Systemic Inflammation Activation*” Mentor: Wenke Feng

2nd place Jamie Young “*Effects of Early Life Chronic Exposure to Arsenic and Cadmium on the Development of Adult Cardiometabolic Syndrome*” Mentor: Gavin Arteel

1st place Joshua Royal “*Epicertin, A Cholera Toxin B Subunit Variant, Enhances Intestinal Wound Healing in a mouse acute colitis model and human ulcerative colitis colon explants*” Mentor: Nobuyuki Matoba

Doctoral Basic Science Graduate Student Award

2nd place: Rumeysa Biyik-Sit “*Potential Role For A Phosphoserine Aminotransferase 1 And Pyruvate Kinase Muscle 2 (PSAT1:PKM2) Functional Interaction In Lung Cancer Cells*” Mentor: Brian Clem

2nd place: Xinyue Hu “*Protective Effect of Dimethyl Fumarate on T1D-induced Diabetic Cardiomyopathy Probably via Nrf2 pathway*” Mentor: Yang Zheng

2nd place: Cierra Sharp “*Worsened Renal Fibrosis in Kras4bG12D Lung Adenocarcinoma-Bearing Mice Treated with Repeated Dosing of Cisplatin may be EGFR-Mediated*” Mentor: Leah Siskind

2nd place: Marcus Stepp “*Acetylmic Analysis of Arylamine N-Acetyltransferase 1 Knockout in the MDA-MB-231 Triple Negative Breast Cancer Line*” Mentor: David Hein

1st place: John Caleb Greenwell “*Interplay between aging, lung remodeling, and fibronectin EDA in lung cancer progression*” Mentor: Jesse Roman

Bioengineering Co-op Student Award

Winner: Morgan Sharp “*Skeletal Muscle as a Marker for the Effectiveness of Exercise after Spinal Cord Injury*” Mentor: David Magnuson

Masters Engineering Student Award

Winner: Brooke Barrow “*Development of a Flight-Ready Multi-Functional Surgical Wand for Space-Based Surgical Applications*” Mentor: Thomas Roussel

Doctoral Engineering Student Award

Winner: Ahmed Shaffie “*A Novel Framework for Integrating Imaging and Clinical Bio-markers Based Methods for Early Assessment of Lung Nodules*” Mentor: Ayman El-Baz

School of Dentistry Dental Student Award

3rd place: Sonali Sapare “*BAR-Encapsulated Electrospun Fibers Inhibit Porphyromonas gingivalis Biofilm Formation*” Mentor: Jill Steinbacj-Rankins

2nd place: Muddasir Mohammed “*Influences of Porphyromonas gingivalis on the apoptosis and proliferation of Esophageal Carcinoma cells*” Mentor: Huizhi Wang

1st place: Andrew Griebel “*Identification of Genes Involved in Branching Morphogenesis of Salivary*” Mentor: Lisa Sandell

Norton Healthcare Medical Student Award

3rd place: Christopher Greb “*Emulsion Method Nanoparticle Synthesis Dasatinib Micro-encapsulation in Sub-micrometer PLGA Particles As Drug Delivery Platform For Proliferative Vitreoretinopathy*” Mentor: Martin O'Toole

2nd place: Evan Tracy “3D Bioprinting The Cardiac Purkinje System Using Human Adipogenic Mesenchymal Stem Cell Derived Purkinje Cells” Mentor: Stuart Williams

1st place: Cecily Allen “Understanding the Role of Hydralazine as an Epigenetic Cancer Therapy in Relation to N-Acetyltransferase Acetylator Phenotype” Mentor: David Hein

Postdoctoral Fellow Award

2nd place: Hridgandh Donde “Tributyryn Administration Targets Alcohol-induced Pathogenic Mechanisms in the Gut-liver Axis: Relevance to the Development of Therapeutic Strategies in Alcoholic Liver Disease” Mentor: Shirish Barve

1st place: Nazimuddin Khan “Human Guanylate Kinase: NMR structure determination and functional investigation of a new biomolecular target for lung cancer” Mentor: Thomas Sabo

Research Associate Award

2nd place: Ray Yeager “Residential Proximity to Green Vegetation is Negatively Associated with Exposure to Volatile Organic Compounds” Mentor: Aruni Bhatnagar

1st place: Anita Chhabra “Mouse FCs may contain lymphoid progenitor cells that have the capacity to generate B and T cells in vivo” Mentor: Suzanne Ildstad

Research Staff Award

Winner : Ernesto Pena Calderin “Exercise-Enhanced Macrophage Phagocytosis And Resolvin Biosynthesis Are Abrogated By A Diet High In Fat” Mentor: Jason Hellmann

Winner: Bryan Betty “Current Practice of Bronchodilator Reversibility Measurement Underestimates Asthma in the Older Adult”

School of Medicine Medical Resident Award

Winner Thomas Schlierf “Does Robotic Assisted TKA Provide Early Improvement in Functional Outcome Compared to Conventional TKA?” Mentor Arthur Malkani

School of Medicine Clinical Research Fellow Award

Winner Penn Muluhngwi “The miR-29 transcriptome in endocrine-sensitive and resistant breast cancer cells” Mentor Carolyn Klinge

Public Health & Information Sciences

Master’s Student Award Thomas Chandler “Using Time to Clinical Stability to Predict Long-Term Mortality in Adult Patients Hospitalized for Community-Acquired Pneumonia: Results from the University of Louisville Pneumonia Study” mentors: Paula Peyrani & Stephen Furmanek

Doctoral Student Award Stacey Konkle “The Association of Volatile Organic Compound Exposures with Serum Lipids” mentor: Aruni Bhatnagar

Basic Research in Public Health Award Yiqun Mo “The Effects of Nickel Nanoparticles on MMPs Production in Primary Monocytes: the Role of miR-21” Mentor Qunwei Zhang

Research & Practice in Public Health Award Rishtya Kakar “Every Child with Asthma Needs an Asthma Action Plan”: Developing a Community Campaign to Reduce Childhood Asthma Disparities in West Louisville” Mentor: Ryan Combs

Nursing Graduate Student

Winner Barbra Cave “Changing Epidemiology of Hepatitis C Exposure in Kentucky”

NCI Cancer Education Program Norbert J. Burzynski Award Professional Student Category

3rd place: Taylor Q. Nguyen “Development of novel diagnostic methodologies for diagnosis and monitoring in melanoma” Mentor: Nichola Garbett

2nd place: Emily Martin “*Laser-Irradiated “Binary Bomb” Nanoparticles with Encapsulated Gold Nanorods and Chemotherapeutics selectively mediate Hepatocellular Carcinoma Apoptosis*”

Mentor: Robert CG Martin

1st place: Cecily Allen “*Understanding the Role of Hydralazine as an Epigenetic Cancer Therapy in Relation to N-Acetyltransferase Acetylator Phenotype*” Mentor: David Hein

NCI Cancer Education Program Norbert J. Burzynski Award Undergraduate Student

Category

3rd place: Megan Peterson “*Evaluating the Potential of Two Copper-Containing Compounds to Selectively Target Cancer Cells*” Mentor: Paula Bates

2nd place: Roxana Gonzalez-Ramos “*Enhancement of Triple Negative Breast Cancer Virotherapy via Alkylating Agent-Induced Autophagy*” Mentor: Jorge Gomez-Gutierrez

1st place: Sarah McQuaide “*Genotypic Analysis of Mammary Carcinoma Susceptibility 3 Nominated Gene Expression Levels in Rat Mammary Glands*” Mentor: David Samuelson

Jewish Hospital & St. Mary’s Foundation Faculty Award - Instructor

Winner Ming Song “*Dietary Copper-Fructose Interactions Alter Gut Microbial Activity in Male Rats*”

Jewish Hospital & St. Mary’s Foundation Faculty Award - Assistant Professor

Winner: Leila Gobejishvili “*Correlation between the phosphodiesterase 4 (PDE4) family of enzymes and inflammatory and fibrotic markers in human livers*”

Winner: Ryan Combs “*Using Boot Camp Translation to Improve HIV Literacy in West Louisville*”

Ruth Greenberg Award for Excellence in Medical Education Research

3rd place: Tara McKinley “*Qualitative Evaluation of a Poverty & Social Justice Rotation*”

2nd place: Michael Metz “*Using an Audience Response System to Calibrate Dental Faculty Assessing Student Clinical Competence*”

1st place: Cynthia Metz “*Clinical Scenario Videos Improve D.M.D Students’ Perception of the Basic Sciences and Ability to Apply Content Knowledge*”

Louisville Chapter-Women in Medicine and Science

3rd place Jennifer Koch “*Gender Differences in the Experience of Internal Medicine Residents*”

2nd place: Andrea Merchak “*PD-L1/CD86 expression ratio as a possible biomarker for tolerance in chimeric kidney transplant recipients*”

1st place: Marianna Hutti “*The Perinatal Grief Intensity Scale: A Clinical Screening Instrument for Identifying and Predicting Intense Grief and Need for Follow-Up after Perinatal Loss*”

Excellence in Health Disparities Research Award

3rd place: Ryan Combs “*Using Boot Camp Translation to Improve HIV Literacy in West Louisville*”

2nd place: Rishtya Kakar “*Every Child with Asthma Needs an Asthma Action Plan”: Developing a Community Campaign to Reduce Childhood Asthma Disparities in West Louisville*” Mentor: Ryan Combs

1st place: Adam Neff “*Prevalence and Risk Factors for Anal Dysplasia in HIV-negative and HIV-positive Men Who Have Sex with Men: Results from the 550 Clinic Cohort Study*” Mentor: Paula Peyrani